```
       RAW SEQUENCE LISTING              DATE: 02/06/2001
       PATENT APPLICATION:  US/09/687,984    TIME: 13:30:21

       Input Set : A:\687984.txt
       Output Set: N:\CRF3\02062001\I687984.raw
```

SEQUENCE LISTING

```
 3 (1) GENERAL INFORMATION:
 5      (i) APPLICANT: Hu, Sylvia
 7     (ii) TITLE OF INVENTION: Truncated Glial Cell Line-Derived Neurotrophic
 8                              Factor
10    (iii) NUMBER OF SEQUENCES: 50
12     (iv) CORRESPONDENCE ADDRESS:
13          (A) ADDRESSEE: AMGEN INC.
14          (B) STREET: 1840 DeHavilland Drive
15          (C) CITY: Thousand Oaks
16          (D) STATE: California
17          (E) COUNTRY: United States of America
18          (F) ZIP: 91320
20      (v) COMPUTER READABLE FORM:
21          (A) MEDIUM TYPE: Floppy disk
22          (B) COMPUTER: IBM PC compatible
23          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24          (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
26     (vi) CURRENT APPLICATION DATA:
C--> 27     (A) APPLICATION NUMBER: US/09/687,984
C--> 28     (B) FILING DATE: 13-Oct-2000
30    (vii) PRIOR APPLICATION DATA:
31          (A) APPLICATION NUMBER: US/08/535,681
32          (B) FILING DATE: 28-SEP-1995
34   (viii) ATTORNEY/AGENT INFORMATION:
35          (A) NAME: Curry, Daniel R.
36          (B) REGISTRATION NUMBER: 32,727
37          (C) REFERENCE/DOCKET NUMBER: A-357
39     (ix) TELECOMMUNICATION INFORMATION:
40          (A) TELEPHONE: 805-447-8102
41          (B) TELEFAX: 805-499-8011
42          (C) TELEX:
44 (2) INFORMATION FOR SEQ ID NO: 1:
46      (i) SEQUENCE CHARACTERISTICS:
47          (A) LENGTH: 402 base pairs
48          (B) TYPE: nucleic acid
49          (C) STRANDEDNESS: single
50          (D) TOPOLOGY: linear
52     (ii) MOLECULE TYPE: protein
54     (ix) FEATURE:
55          (A) NAME/KEY: CDS
56          (B) LOCATION: 1..402
58     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
60 TCA CCA GAT AAA CAA ATG GCA GTG CTT CCT AGA AGA GAG CGG AAT CGG        48
61 Ser Pro Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg
62  1           5                   10                  15
64 CAG GCT GCA GCT GCC AAC CCA GAG AAT TCC AGA GGA AAA GGT CGG AGA        96
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ENTERED

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```
 65 Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
 66             20                  25                  30
 68 GGC CAG AGG GGC AAA AAC CGG GGT TGT GTC TTA ACT GCA ATA CAT TTA        144
 69 Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
 70             35                  40                  45
 72 AAT GTC ACT GAC TTG GGT CTG GGC TAT GAA ACC AAG GAG GAA CTG ATT        192
 73 Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
 74             50                  55                  60
 76 TTT AGG TAC TGC AGC GGC TCT TGC GAT GCA GCT GAG ACA ACG TAC GAC        240
 77 Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp
 78 65                  70                  75                  80
 80 AAA ATA TTG AAA AAC TTA TCC AGA AAT AGA AGG CTG GTG AGT GAC AAA        288
 81 Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp Lys
 82                  85                  90                  95
 84 GTA GGG CAG GCA TGT TGC AGA CCC ATC GCC TTT GAT GAT GAC CTG TCG        336
 85 Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser
 86             100                 105                 110
 88 TTT TTA GAT GAT AAC CTG GTT TAC CAT ATT CTA AGA AAG CAT TCC GCT        384
 89 Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
 90             115                 120                 125
 92 AAA AGG TGT GGA TGT ATC                                               402
 93 Lys Arg Cys Gly Cys Ile
 94             130
 96 (2) INFORMATION FOR SEQ ID NO: 2:
 98      (i) SEQUENCE CHARACTERISTICS:
 99           (A) LENGTH: 134 amino acids
100           (B) TYPE: amino acid
101           (D) TOPOLOGY: linear
103      (ii) MOLECULE TYPE: protein
105      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
107 Ser Pro Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg
108  1               5                   10                  15
110 Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
111             20                  25                  30
113 Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
114             35                  40                  45
116 Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
117             50                  55                  60
119 Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp
120 65                  70                  75                  80
122 Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp Lys
123                  85                  90                  95
125 Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser
126             100                 105                 110
128 Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
129             115                 120                 125
131 Lys Arg Cys Gly Cys Ile
132             130
134 (2) INFORMATION FOR SEQ ID NO: 3:
```

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```

```
136        (i) SEQUENCE CHARACTERISTICS:
137              (A) LENGTH: 4 amino acids
138              (B) TYPE: amino acid
139              (C) STRANDEDNESS: single
140              (D) TOPOLOGY: linear
142       (ii) MOLECULE TYPE: peptide
144       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
146        Lys Asn Arg Gly
147        1
149 (2) INFORMATION FOR SEQ ID NO: 4:
151        (i) SEQUENCE CHARACTERISTICS:
152              (A) LENGTH: 5 amino acids
153              (B) TYPE: amino acid
154              (C) STRANDEDNESS: single
155              (D) TOPOLOGY: linear
157       (ii) MOLECULE TYPE: peptide
159       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
161        Gly Lys Asn Arg Gly
162        1               5
164 (2) INFORMATION FOR SEQ ID NO: 5:
166        (i) SEQUENCE CHARACTERISTICS:
167              (A) LENGTH: 6 amino acids
168              (B) TYPE: amino acid
169              (C) STRANDEDNESS: single
170              (D) TOPOLOGY: linear
172       (ii) MOLECULE TYPE: peptide
174       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
176        Arg Gly Lys Asn Arg Gly
177        1               5
179 (2) INFORMATION FOR SEQ ID NO: 6:
181        (i) SEQUENCE CHARACTERISTICS:
182              (A) LENGTH: 7 amino acids
183              (B) TYPE: amino acid
184              (C) STRANDEDNESS: single
185              (D) TOPOLOGY: linear
187       (ii) MOLECULE TYPE: peptide
189       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
191        Gln Arg Gly Lys Asn Arg Gly
192        1               5
194 (2) INFORMATION FOR SEQ ID NO: 7:
196        (i) SEQUENCE CHARACTERISTICS:
197              (A) LENGTH: 8 amino acids
198              (B) TYPE: amino acid
199              (C) STRANDEDNESS: single
200              (D) TOPOLOGY: linear
202       (ii) MOLECULE TYPE: peptide
204       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
206        Gly Gln Arg Gly Lys Asn Arg Gly
207        1               5
```

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209 (2) INFORMATION FOR SEQ ID NO: 8:
211     (i) SEQUENCE CHARACTERISTICS:
212         (A) LENGTH: 9 amino acids
213         (B) TYPE: amino acid
214         (C) STRANDEDNESS: single
215         (D) TOPOLOGY: linear
217     (ii) MOLECULE TYPE: peptide
219     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
221     Arg Gly Gln Arg Gly Lys Asn Arg Gly
222     1               5
224 (2) INFORMATION FOR SEQ ID NO: 9:
226     (i) SEQUENCE CHARACTERISTICS:
227         (A) LENGTH: 10 amino acids
228         (B) TYPE: amino acid
229         (C) STRANDEDNESS: single
230         (D) TOPOLOGY: linear
232     (ii) MOLECULE TYPE: peptide
234     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
236     Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
237     1               5               10
239 (2) INFORMATION FOR SEQ ID NO: 10:
241     (i) SEQUENCE CHARACTERISTICS:
242         (A) LENGTH: 11 amino acids
243         (B) TYPE: amino acid
244         (C) STRANDEDNESS: single
245         (D) TOPOLOGY: linear
247     (ii) MOLECULE TYPE: peptide
249     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
251     Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
252     1               5               10
254 (2) INFORMATION FOR SEQ ID NO: 11:
256     (i) SEQUENCE CHARACTERISTICS:
257         (A) LENGTH: 12 amino acids
258         (B) TYPE: amino acid
259         (C) STRANDEDNESS: single
260         (D) TOPOLOGY: linear
262     (ii) MOLECULE TYPE: peptide
264     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
266     Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
267     1               5               10
269 (2) INFORMATION FOR SEQ ID NO: 12:
271     (i) SEQUENCE CHARACTERISTICS:
272         (A) LENGTH: 13 amino acids
273         (B) TYPE: amino acid
274         (C) STRANDEDNESS: single
275         (D) TOPOLOGY: linear
277     (ii) MOLECULE TYPE: peptide
279     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
281     Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
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          RAW SEQUENCE LISTING           DATE: 02/06/2001
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          Input Set : A:\687984.txt
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282      1            5                10
284  (2) INFORMATION FOR SEQ ID NO: 13:
286      (i) SEQUENCE CHARACTERISTICS:
287          (A) LENGTH: 14 amino acids
288          (B) TYPE: amino acid
289          (C) STRANDEDNESS: single
290          (D) TOPOLOGY: linear
292      (ii) MOLECULE TYPE: peptide
294      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
296       Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
297       1            5                10
299  (2) INFORMATION FOR SEQ ID NO: 14:
301      (i) SEQUENCE CHARACTERISTICS:
302          (A) LENGTH: 15 amino acids
303          (B) TYPE: amino acid
304          (C) STRANDEDNESS: single
305          (D) TOPOLOGY: linear
307      (ii) MOLECULE TYPE: peptide
309      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
311       Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
312       1            5                10               15
314  (2) INFORMATION FOR SEQ ID NO: 15:
316      (i) SEQUENCE CHARACTERISTICS:
317          (A) LENGTH: 16 amino acids
318          (B) TYPE: amino acid
319          (C) STRANDEDNESS: single
320          (D) TOPOLOGY: linear
322      (ii) MOLECULE TYPE: peptide
324      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
326       Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
327       1            5                10               15
329  (2) INFORMATION FOR SEQ ID NO: 16:
331      (i) SEQUENCE CHARACTERISTICS:
332          (A) LENGTH: 17 amino acids
333          (B) TYPE: amino acid
334          (C) STRANDEDNESS: single
335          (D) TOPOLOGY: linear
337      (ii) MOLECULE TYPE: peptide
339      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
341       Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg
342       1            5                10               15
344       Gly
347  (2) INFORMATION FOR SEQ ID NO: 17:
349      (i) SEQUENCE CHARACTERISTICS:
350          (A) LENGTH: 18 amino acids
351          (B) TYPE: amino acid
352          (C) STRANDEDNESS: single
353          (D) TOPOLOGY: linear
355      (ii) MOLECULE TYPE: peptide
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/687,984

DATE: 02/06/2001
TIME: 13:30:22

Input Set : A:\687984.txt
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```
L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:772 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39
L:798 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40
L:834 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:41
L:838 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:41
L:842 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:41
L:846 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:41
L:850 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:41
L:854 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:41
L:858 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:41
L:916 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43
L:920 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43
L:924 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43
L:928 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43
L:932 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43
L:936 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43
L:940 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:43
L:992 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:45
L:996 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:45
L:1000 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:45
L:1004 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:45
L:1008 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:45
L:1012 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:45
L:1016 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:45
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